

ATGGCTCTGGGGCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTGGGTGTGGCCATCCCC  
 AGGTTTCAAACTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGCAGGCACATGGCCGTG  
 GCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGTGTGGAGGCTCCCTGCTCAGTCCAGAATGG  
 GTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTGTGAACCTCGTCTGATTATCAGGTGCACTTGG  
 GAGAGCTTACGGTCACACTGTCTCCCCACTTCTCCACTGTAAAACGGATCATCATGTACACTGG  
 CTCTCCAGGACCACCGGGGTCCAGTGGGGACATTGCCCTGGTGCAGCTGTCCTCCCCGGTGGCC  
 CTTTCCAGCCAGGTCCAGCCTGTGTGCCTCCCAGAGGCCTCAGCTGACTTCTACCCCTGGGATGC  
 AGTGCTGGGTGACTGGCTGGGGCTATACAGGGGAGGGAGAGCCTCTGAAGCCCCCATAACAACCT  
 TCAGGAGGCCAAAGTCTCTGTGGTGGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCCAAT  
 GGCAGCCTCATCCAGCCAGACATGCTATGCGCCCCGGGGCCCTGGGGATGCCTGCCAGGATGACT  
 CTGGAGGGCCACTAGTCTGCCAGGTGGCTGGAACCTGGCAGCAGGCCGGCGTTGTGAGCTGGGG  
 TGAGGGCTGTGGCCGCCCTGACCGCCCTGGCGTCTATGCCCCGGGTACTGCCTATGTAAACTGG  
 ATCCACCACCACATCCCGGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCC  
 TGGCTGCCCTCTTCTGGCCAAGCCTCTTCCTGCTGCTGGTCTCTGGAGTCTGATGGCCAAGTA  
 CTGGCTGAGCTCTCCCTCCCACGCGCCTCGGAACCTCTGAATGAGGTGTAGCAACCAACCAAG  
 TGTCTTTCTTAAATAAGTTAGTGTATTTCAGTTTGCTTTGCCCTCCCCTCCCCTTAGCTTTG  
 ACTTAGGAAGCCAAAGTTTTCTGCATCAGATTATTGCAACATTTAACCTGAATTTGTAGAACGG  
 ATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

MALGPNCGILLFLAVSGCGHPQVSNSGSRIVGGHAAPAGTWPWQ  
 ASLRLHKVHVCGGSLLSPEWVLTAAHCFSGSVNSSDYQVHLGELTVTLSPHFSTVKRI  
 IMYTGSPGPPGSSGDIALVQLSSPVALSSQVQPVCLPEASADFYPGMQCWVTGWGYTG  
 EGEPLKPPYNLQEAKVSVVDVKTC SQAYNSPNGSLIQPDMLCARGPGDACQDDSGGPL  
 VCQVAGTWQQAGVVSWECEGCRPDRPGVYARVTAYVNWIIHHIPEAGGSGMQGLPWAP

LLAALFWPSLFLLLVSGVLMKYWLSSPSHAASEL (SEQ ID NO:2)

FIGURE 1

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# Construct

Gene: 372 GI Number(s): 6103630  
 Gene Family: Protease  
 Gene Subfamily: Serine Protease  
 Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

ATGGCTCTGGGGCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTG [GGTGTGGCCA  
 TCCCCAGGTTTCAAACCTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGCAGGCAC  
 ATGGCCGTGGCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGT] GTGGAGGCTCCCTGC  
 TCAGTCCAGAATGGGTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTGTGAACCTCGTCTG  
 ATTATCAGGTGCACCTTGGGAGAGCTTACGGTCACACTGTCTCCCCACTT [CTCCACTGTA  
 AAACGGATCATCATGTACACTGGCTCTCCAGGACCACCGGGGTCCAGTGGGGACATTGCC  
 CTGGTGCAGCTGTCTCCCCGGTGGCCCTTTCCAGCCAGGTCCAGCCTGTGTGCCTCCCA  
 GAGGCTCAGCTGACTTCTACCCTGGGATGCAGTGCTGGGTGACTGGCTGGGGCTATACA  
 GGGGAGGGAG] AGCCTCTGAAGCCCCCATACAACCTTCAGGAGGCCAAAGTCTCTGTGGT  
 GGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCAATGGCAGCCTCATCCAGCCAGA  
 CATGCTATGCGCCCCGGGGCCCTGGGGATGCCTGCCAGGATGACTCTGGAGGGCCACTAGT  
 CTGCCAGGTGGCTGGAACTTGGCAGCAGGCGCGCTTGTCTGAGTGGGGTGAGGGCTGTGG  
 CCGCCCTGACCGCCCTGGCGTCTATGCCCCGGGTACTGCCTATGTAACTGGATCCACCA  
 CCACATCCCCGGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCCTGGC  
 TGCCCTCTTCTGGCCAAGCCTCTTCTGCTGCTGGTCTCTGGAGTCTGATGGCCAAGTA  
 CTGGCTGAGCTCTCCCTCCCACGCGGCTCGGAACTCTGAATGAGGTGTAGCAACCAACC  
 CAAGTGCTTTTCTTAAATAAGTTAGTGTATTATTCAGTTTGCTTTGCCCCCTCCCCCTCCCCT  
 TAGCTTTGACTTAGGAAGCCAAAGTTTCTGCATCAGATTATTGCAACATTTAACCTGAA  
 TTTGTAGAACGGATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

## Gene Sequence Structure

\*

164 bp

Sequence Deleted

287 bp

Size of full-length  
 cDNA: 1122 bp

FIGURE 2A

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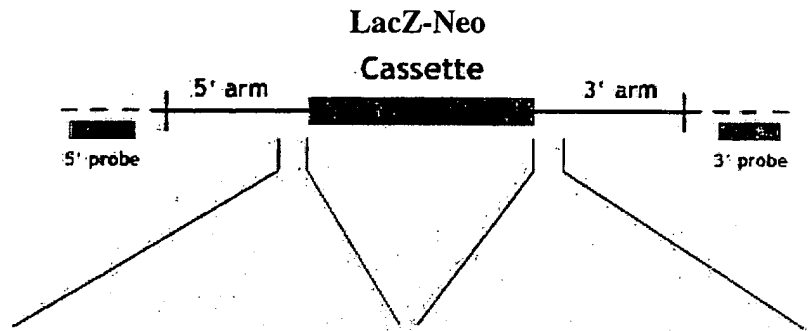
# Targeting Vector\* (genomic sequence)

Construct Number: 1607

Arm Length:

5': 6 kb

3': 0.7 kb



———— Targeting Vector  
 - - - - - Endogenous Locus

Not drawn to scale

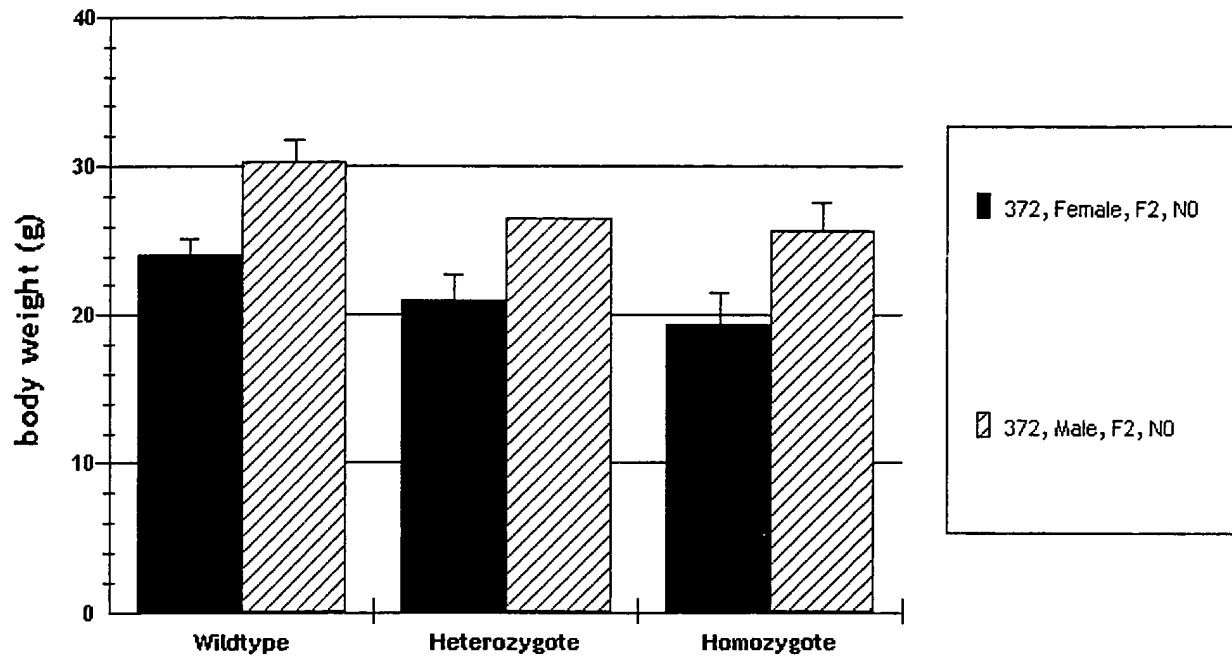
<p>5' &gt;GGAGTCATGGAGGGCTCCCAG            AGAAAGGGCATTGAGCAGAATGCC            GGTCTCCAGATTCCCTCACCAACA            GTGTCTCCTCTGGATCAGGGTGTG            GCCATCCCCAGGTTTCAAACTCGG            GAAGTCGAATCGTGGGAGGGCATG            CTGCCCCAGCAGGCACATGGCCGT            GGCAGGCTAGCCTCCGTCTGCACA            AGGTGACGTGT&lt;3'            (SEQ ID NO:3)</p>	<p>5' &gt;CTCCACTGTAAAACGGATCAT            CATGTACACTGGCTCTCCAGGACC            ACCGGGTCCAGTGGGGACATTGC            CCTGGTGCAGCTGTCTCCCCGGT            GGCCCTTTCAGCCAGGTCCAGCC            TGTGTGCCTCCCAGAGGCCTCAGC            TGACTTCTACCCTGGGATGCAGTG            CTGGGTGACTGGCTGGGGCTATAC            AGGGGAGGGAG&lt;3'            (SEQ ID NO:4)</p>
---	--

FIGURE 2B

09900754.070601

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## necropsy - body weight



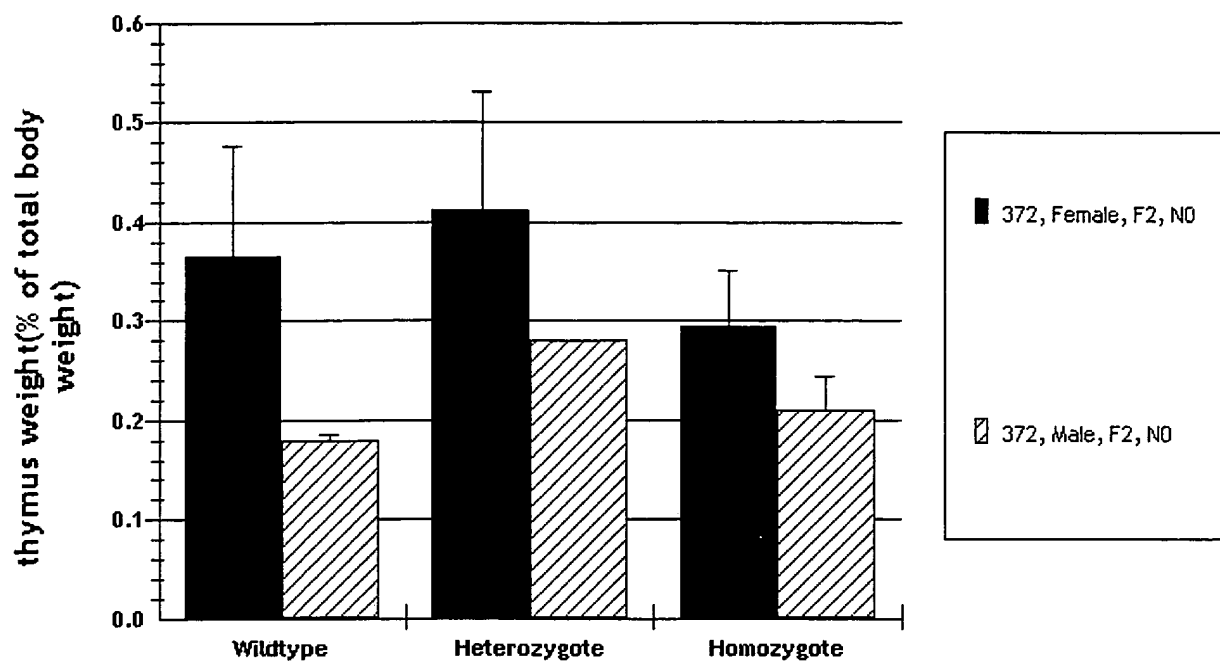
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FIGURE 3

10900754.070601

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## necropsy - thymus weight/body weight



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FIGURE 4

FO9020-45200660

FO9020-15200660

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# Phenotypic Data Summary - Startle Response Amplitude

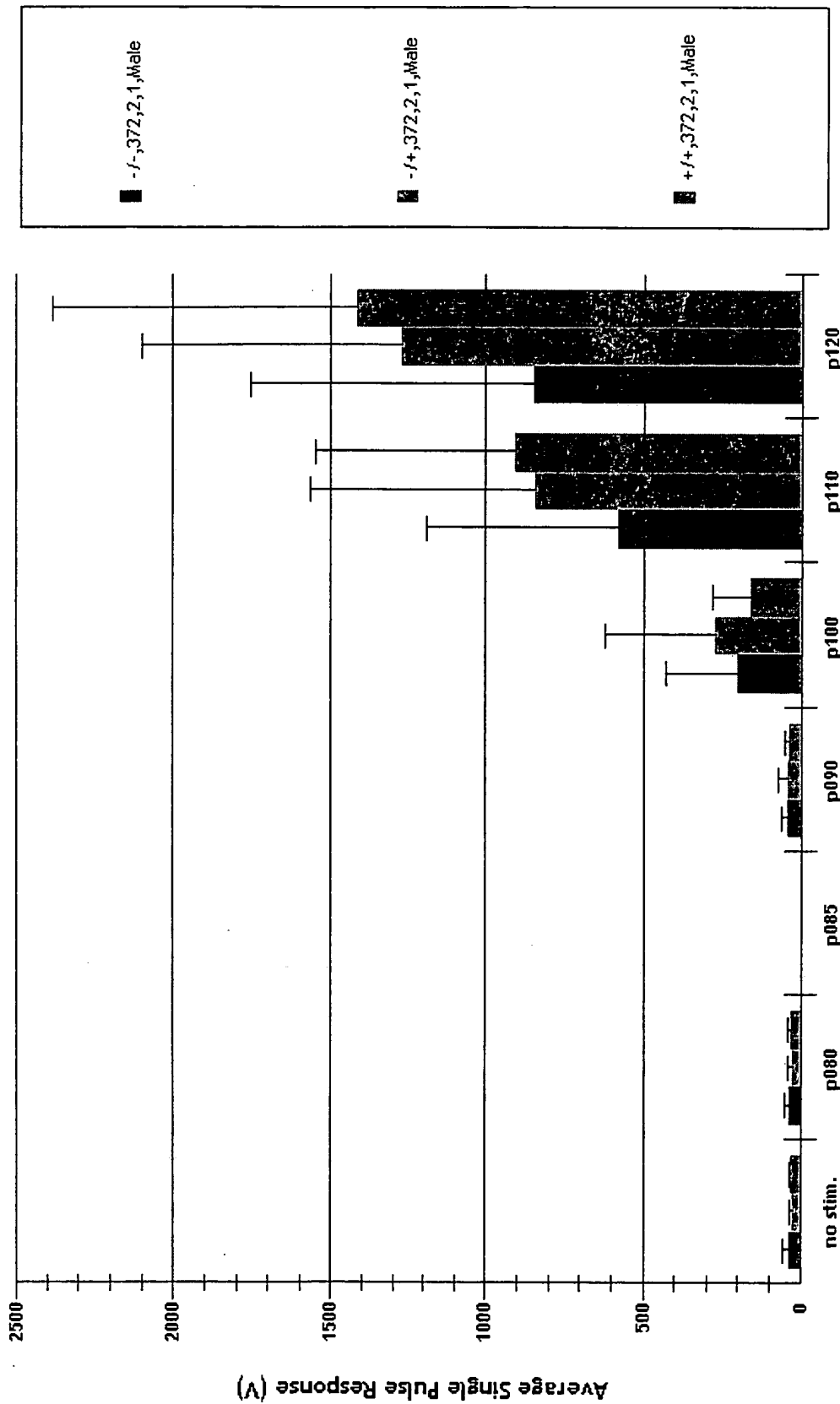


FIGURE 5